DHIHAN AHMED

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EDUCATION

Stevens Institute of Technology *09/2021 – 05/2025*

B.S. in **Computer Science**

- *Honors:* Dean's List, The Edwin A. Scholarship
- *Relevant Coursework:* Web Programming, Operating Systems, Systems Programming, Data Structures, Algorithms, Agile Methodologies, Linear Algebra, Computer Architecture, Discrete Structures
- *Cumulative GPA:* 3.91/4.00

PROFESSIONAL EXPERIENCE

Stevens Institute of Technology **Hoboken, NJ**

Teaching Assistant *08/2024 – Present*

- Assist over **100+** students in mastering **Web Programming I & II** concepts, offering one-on-one support and conducting review sessions on **front-end** and **back-end** development
- Hold weekly in-person office hours and virtual sessions, consistently receiving a **90%+ satisfaction rate**
- Helped improve overall class performance by **10%**, providing targeted feedback and clarifying challenging concepts such as **API integration**, **client-server architecture**, and **state management**

PROJECTS

QuickQuest: Real-Time Survey Platform [Website / Github] *06/2024 – 09/2024*

- Developed a full-stack web application using **React** + **Next.js**, allowing users to create **real-time**, time-sensitive surveys that dynamically update as responses are submitted
- Accumulated **125+ responses** from **50+ users** within the **first month** of launch
- Leveraged **Firebase Authentication** for user authentication, supporting secure **Google Sign-In** for user verification
- Utilized **Firestore Cloud Database** for **real-time data storage**, enabling users to see live survey results

Piggy Bank: Digital Banking for Kids [Github] *03/2024 – 05/2024*

- Engineered a full-stack web application utilizing **React**, **DaisyUI**, and **MongoDB** to promote financial literacy among children under parental supervision
- Implemented user authentication and role management with **Clerk**, and utilized **Redis** for efficient caching and data management

CPUseless!: 8-bit CPU w/ Custom Assembler & Programming Language [Github] *12/2022*

- Developed an **8-bit** CPU using **Logisim**, supporting arithmetic operations and instruction loading
- Implemented a custom **Python assembler** to translate high-level instructions into machine code

Climaction: Climate Change App [Devpost / Github] *02/2022 – 03/2022*

- Developed an **iOS app** using **Figma** and **Bravo App** to motivate sustainable choices by our users
- Pioneered a gamified approach with "ClimateCoins," encouraging eco-friendly actions to support nonprofit charities
- Secured **1st place** in the **2022 Hoboken Climate Hackathon**

SKILLS

Languages: Python | JavaScript | C++ | C | HTML | CSS | Java

Software: Git | NodeJS | React | Next.js | MongoDB | Firebase | Firestore | Figma | Unix | Postman